

MANGALORE



UNIVERSITY

**DEPARTMENT OF POST-GRADUATE STUDIES AND  
RESEARCH IN COMPUTER SCIENCE**

Mangalore University  
Mangalagangothri, Mangaluru – 574 199

**CERTIFICATE**

This is to certify that the project work entitled “AI based Voice Assistant using Python” has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **MS. DHANWIKA** (RegNo:P05AZ22S038054), student of Fourth semester MSc in Computer Science, under the supervision and guidance of **Dr. MANJIAH D.H** , Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2023-2024**.

  
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Department of Post-Graduate Studies and  
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Mangalore University, Mangalagangothri - 574 199  
MANGALORE, KARNATAKA, INDIA

  
**Internal Examiner**

  
**External Examiner**

Submitted for the viva-voce examination held on

29/08/2024

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RESEARCH IN COMPUTER SCIENCE**


**Mangalore University**  
Mangalagangothri, Mangaluru – 574 199

**CERTIFICATE**

This is to certify that the project work entitled “**DIABETES PREDICTION USING MACHINE LEARNING & DEEP LEARNING**” has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **Mr. GAUTHAMRAJ (Reg. No: PO5AZ22S038065)**, student of Fourth semester M.Sc, Computer Science, under the supervision and guidance of **Mr. PRAKASH M**, Assistant Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2023-2024**.

  
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**DEPARTMENT OF POST-GRADUATE STUDIES AND RESEARCH IN COMPUTER  
SCIENCE**

Mangalore University Mangalagangothri,  
Mangaluru – 574 199

**CERTIFICATE**

This is to certify that the project work entitled “**SMART RESOURCES ALLOCATION  
SYSTEM**” has been successfully carried out in the  
Department of Post-Graduate Studies and Research in Computer Science by **Harshitha A (Reg.  
No: P15AZ22S038043**, student of Fourth semester M.C.A, Computer Science, under the supervision  
and guidance of **Mr. PRAKASH M**, Assistant Professor, Department of Post-Graduate Studies and  
Research in Computer Science, Mangalore University. The project is partial fulfilment of the  
requirements for the award of **Master of Computer Application** by **Mangalore University** during  
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## DEPARTMENT OF POST-GRADUATE STUDIES AND RESEARCH IN COMPUTER SCIENCE

Mangalore University Mangalagangothri, Mangaluru – 574 199

### CERTIFICATE

This is to certify that the project work entitled ““Fusion Techniques In Multi-Biometric Recognition Using Deep Learning” has been successfully carried out in the Department of Post- Graduate Studies and Research in Computer Science by **Ms. HIFAZATH BANU**(Reg. No: P05AZ22S038057), student of Fourth semester MSC Computer Science, under the supervision and guidance of **Mr. PRAKASH M**, Assistant Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Master of Science in Computer Science** by Mangalore University during the academic year **2023-24**.

  
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Mangalagangothri, Mangalore – 574 199

**CERTIFICATE**

This is to certify that the project work entitled “**CATARACT DISEASE PREDICTION BY USING TRANSFER LEARNING BASED METHODS**” has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **Ms. JAYALAKSHMI K (Reg.No: PISAZ22S038055)**, student of third semester Master of Computer Science, under the supervision and guidance of **DR. B.H SHEKAR**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2023-2024**.

  
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**CERTIFICATE**

This is to certify that the project work entitled **"SIGNATURE FORGERY  
DETECTION"** has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **JITHESH J K (Reg. No: P05AZ22038051)**, student of third semester Master of Computer Science under the supervision and guidance of **Mr. PRAKASHA M**, Assistant Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfillment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2023-2024**.

  
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**CERTIFICATE**

This is to certify that the project work entitled **"NETWORK INTRUSION DETECTION USING MACHINE LEARNING AND DEEP LEARNING"** has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science Mangalore University by **Ms. KAVYA K (Reg.No:P05AZ22S038048)**, student of Fourth Semester M.Sc. Computer Science, under the supervision and guidance of **Dr. MANJIAH D.H**, Senior Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Degree in Master of Science in Computer Science** During the Academic Year **2023-24**.

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### CERTIFICATE

This is to certify that the project work entitled “**Deep Learning Approach for Multimodal Biometric Identification System Based on Fusion of Face and Iris**” has been successfully carried out in the Department of Post- Graduate Studies and Research in Computer Science by **Ms. FATHIMATH ZAKIYA** (U Reg. No: **P05AZ22S038037**), student of Fourth semester MSC Computer Science, under the supervision and guidance of **Mr. PRAKASH M**, Assistant Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Master of Science in Computer Science** by Mangalore University during the academic year **2023-24**.

  
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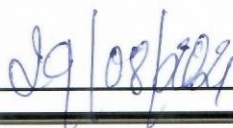
  
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Mangalore University Mangalagangothri,  
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**CERTIFICATE**

This is to certify that the project work entitled “ **Identification of Human v/s Machine generated text in monolingual and multilingual scenarios**” has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **MANAVI K K (Reg. No: P05AZ22038050)**, student of Fourth semester Master of Computer Science under the supervision and guidance of **Dr. H. L. Shashirekha**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2023-24**.

*H. L. Shashirekha*  
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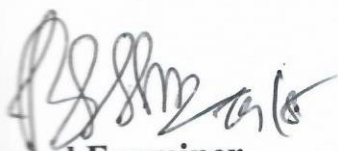
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**CERTIFICATE**

This is to certify that the project work entitled **“CALORIE BURNT PREDCTION”** has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **Ms. MARIYAMMA ISANA**(Reg. No: **P05AZ22S038058**), student of Fourth semester MSC Computer Science, under the supervision and guidance of **Dr. MANJIAH B.H.**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Master of Science in Computer Science** by **Mangalore University** during the academic year **2023-2024**.

  
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This is to certify that the project work entitled “**MULTILINGUAL APPROACHES FOR DETECTING HOMOPHOBIC AND TRANSPHOBIC CONTENT IN CODE-MIXED TEXT**” has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **MS. NETHRAVATHI GIDNAKANALA**(Reg.No:P05AZ22S038041), student of Fourth semester MSc in Computer Science, under the supervision and guidance of **Dr. H. L. SHASHIREKHA**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfillment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2023-2024**.

*H. L. Shashirekha*  
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**Internal Examiner** 29/8

*[Signature]*  
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*[Signature]* 29/8/24  
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**Mangalagangothri, Mangalore - 574199**

**CERTIFICATE**

This is to certify that the project work entitled "**EMPLOYEE PERFORMANCE ANALYSIS**" has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **Ms. NISHMITHA J.R (Reg. No: P15AZ22S038047)**, student of Fourth semester M.Sc Computer Science, under the supervision and guidance of **Mr. PRAKASHA M**, Assistant Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Master of Science in Computer Science** by Mangalore University during the academic year **2023-2024**.

  
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Mangalagangothri-Mangaluru-574199

**CERTIFICATE**

This is to certify that the project work entitled "**Gesture control for Human Computer Interaction**" has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science Mangalore University. **Ms. POOJA (Reg.No: P05AZ22S038044)**, student of Fourth Semester M.Sc. Computer Science, under the supervision and guidance of **Dr. MANJALIAH D.H.**, Senior Professor & Chairperson, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfillment of the requirements for the award of Degree in Master of Science in Computer Science by Mangalore University during the Academic Year **2023-24**.

  
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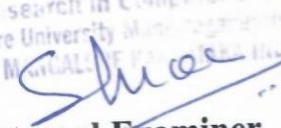
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This is to certify that the project work entitled “**VOICE-ASSISTED VOTING FOR VISUALLY IMPAIRED**” has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **Mr. PRATHVI B (Reg.No: P05AZ22S038056)**, student of Fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. H. L. SHASHIREKHA**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Master of Computer Science** by Mangalore University during the academic year **2023-24**.

  
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Mangalore University  
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### CERTIFICATE

This is to certify that the project work entitled "**BRAIN TUMOR DETECTION USING DEEP LEARNING METHODS**" has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science, Mangalore University by **RAKSHA(Reg.No:P05AZ22S038035)**, student of Fourth Semester M.Sc. Computer Science, under the supervision and guidance of **Dr. B.H SHEKER**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfillment of the requirements for the award of **Degree in Master of Science in Computer Science** During the Academic Year **2023-2024**.

  
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**CERTIFICATE**

This is to certify that the project work entitled “**KanAug – TEXT AUGMENTATION TECHNIQUES FOR KANNADA**” has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **Ms. RAKSHA G (Reg.No: P05AZ22S038036)**, student of Fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. H. L. SHASHIREKHA**, Professor, Department of Post- Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2023-24**.

  
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**CERTIFICATE**

This is to certify that the project work entitled **“FACE RECOGNITION BASED ATTENDANCE SYSTEM”** has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **Ms. SANDHYA LAXMI K (Reg. No: P05AZ22S038045)**, student of Fourth semester Master of Computer Science, under the supervision and guidance of **Dr.B.H.SHEKAR**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2023-2024**.

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**CERTIFICATE**

This is to certify that the project work entitled '**SEMANTIC SEGMENTATION OF SATELLITE IMAGERY USING DEEP LEARNING TECHNIQUES**' has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **Mr. SIDHARTH MAHESH (Reg.No: P05AZ22S038059)**, student of Fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. B.H Shekar**, Professor, Department of Post- Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfillment of the requirements for the award of **Master of Computer Science by Mangalore University** during the academic year 2023-24.

  
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**CERTIFICATE**

This is to certify that the project work entitled “**NAMED ENTITY RECOGNITION FOR TULU**” has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **Ms. SONALI** (Reg.No: **P05AZ22S038066**), student of Fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. H. L. SHASHIREKHA**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfillment of the requirements for the award of **Master of Computer Science** by Mangalore University during the academic year **2023-24**.

*H. L. Shashirekha*  
**Internal Guide**

*[Signature]*  
**Internal Examiner**

*[Signature]*  
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**CERTIFICATE**

This is to certify that the project work entitled “**WORD – LEVEL LANGUAGE IDENTIFICATION IN CODE-MIXED DRAVIDIAN LANGUAGES**” has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **Mr. SONITH D (Reg.No: P05AZ22S038060)**, student of Fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. H. L. SHASHIREKHA**, Professor, Department of Post- Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2023-24**.

  
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This is to certify that the project work entitled "**NORMALIZATION FOR CODE MIXED KANNADA TEXT**" has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **Mr. SUBRAHMANYA (Reg.No: P05AZ22S038046)**, student of Fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. H. L. SHASHIREKHA**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Master of Computer Science** by Mangalore University during the academic year **2023-24**.

*Shashirekha*  
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This is to certify that the project work entitled "RunTrack: ANDROID BASED RUNNING APP" has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **SUSHANTH K** (Reg. No: **MSAZ22038038**), student of fourth semester Master of Computer Science under the supervision and guidance of **Dr. Manjaiah D. H**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfillment of the requirements for the award of **Master of Computer Science** by Mangalore University during the academic year 2023-24.

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This is to certify that the project work entitled "**CROP RECOMMENDATION SYSTEM BASED ON MACHINE LEARNING**" has been successfully carried out in the Department of Post Graduate Studies and Research in Computer Science by **Ms THRIVENI D(Reg. No: P05AZ22S038040)**, student third semester Master of Computer Science, under the supervision and guidance of **Dr. B. H. Shekar**, Professor, Department of Post-Graduate studies and Research in Computer Science, Mangalore University. The project is partial fulfilment for the award of **Master of Computer Science** by Mangalore University during the academic year **2023-2024**

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This is to certify that the project work entitled "**Detection of Covid-19 using Deep Learning Technique**" has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science Mangalore University by **Ms. VEENA (Reg. No P05AZ22S038049)**, student of Fourth Semester M.Sc. Computer Science, under the supervision and guidance of **Dr. B.H Shekar**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Degree in Master of Science in Computer Science** During the Academic Year **2023-24**.

  
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Mangalagangothri, Mangalore – 574 199

**CERTIFICATE**

This is to certify that the project work entitled “**RACK MANAGEMENT SYSTEM**” has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **Ms.VINITHA.M** (Reg. No: **P05AZ22S038034**), student of Fourth semester Master of Computer Science, under the supervision and guidance of **Dr. MANJIAH D.H.**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The project is partial fulfilment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2022-2024**.

**Internal Guide**

**Internal Examiner**

**Chairperson**

Department of Post-Graduate Studies and  
Research in Computer Science  
Mangalore University, Mangalagangothri - 574 199  
MANGALORE, KARNATAKA, INDIA

**External Examiner**

Submitted for the viva-voce examination held on 29/8/2024